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ABSTRACT OF THE DISCLOSURE

A membrane process and apparatus are described for the production of a desired very high purity permeate a multiple stage membrane process wherein in a primary stage a process feed gas mixture is provided to a primary membrane separator unit comprising relatively having high intrinsic membrane a permeability to provide an intermediate permeate gas and a retentate gas, and providing the intermediate permeate in a secondary stage to a secondary membrane separator unit comprising a membrane having a relatively how_intrinsic permeability, to produce therefrom a very

high purity permeate gas product.